

PERFORMANCE PREDICTOR FOR FABRICATED
PARTS

ABSTRACT OF THE DISCLOSURE

A simulation system for generating a predicted performance for fabricated parts comprises a rheological degradation database for storing rheological degradation data for associated materials, a mechanical degradation database for storing mechanical degradation data for associated materials and a computer coupled to the rheological degradation database and the mechanical degradation database for computing part performance predictions for a respective material with a predetermined geometry under predetermined processing conditions, partially based on the rheological degradation data and the mechanical degradation data.